

In re: Appln No. **10/050,838**
Amendment dated August 1, 2006
Reply to Office action of May 25, 2006 and Advisory action of July 28, 2006

Amendments to the Specifications:

Please replace paragraph [0012] with the following amended paragraph:

[0012] In accordance with one aspect of the present invention, a dynamic communication system is provided. The system includes an integrated short-range wireless as depicted in Figure 2 #7 or wired transceiver, an integrated long-range wireless transceiver as depicted in Figure 2 #8, an integrated communication management system and a unique identification number therein.

Please replace paragraph [0016] with the following amended paragraph:

[0016] In accordance with yet another aspect of the present invention, the communication device extends the notion of caller identification as depicted in Figure 1 #16 (Caller-ID). The Caller-ID extension includes both the call originator and call terminator access numbers (prior referenced names can be alternatively shown).

Please add the following new paragraphs after paragraph [0029]:

[0029.1] The term "InterActMe Local / Remote Device" is interchangeable with the term "End-user Communication Device".

[0029.2] The term "Cellular Base Station" is interchangeable with the term "Long Range Access Point".

Please add the following new paragraphs after paragraph [0046]:

[0046.1] Figure 6 is a schematic illustration of communication links between multiple long range access points operating in the inventive manner in a wide area network;

[0046.2] Figure 7 is a schematic illustration of communication links between multiple short range access points operating in the inventive manner in a wide area network;

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[0046.3] Figure 8 is a schematic illustration of methods for determining end-user communication device precise location;

[0046.4] Figure 9 depicts the lookup table indexed by both Call Terminator and Call Originator as a means to determine the InterActMe Access Number for which a communications link is established;

[0046.5] Figure 10 depicts the lookup table indexed by Time of Day, Day of Week (i.e., Calendar), Geographic Location, and availability of Short Range Transceiver as a means to determine the InterActMe Access Number for which a communications link is established;

[0046.6] Figure 11 depicts the lookup table indexed by Time of Day, Day of Week (i.e., Calendar) and Geographic Location in combination with Local, Remote, and Seamless Thresholds as a means to determine the routing choice between Short Range and Long Range Access Points for which a communications link is established;

[0046.7] Figure 12 depicts the lookup table indexed by Access Point showing the parameters of Time to Register, Latency Times, Routing Capacity, Membership Privileges, Signal Strength, and Rate of change Signal Strength as a means to determine the routing choice between Short Range and Long Range Access Points for which a communications link is established;

[0046.8] Figure 13 depicts the lookup table indexed by both Call Terminator and Call Originator and showing parameters for Ring of End-user Communication Device, Voice Mail, and Forwarding information.

Please replace paragraph [0055] with the following amended paragraph:

[0055] Particularly preferred communications links are between InterActMe access numbers that are cross-referenced in the InterActMe Lookup Table (Figure 1 #13), which is utilized to provide current access number(s) or sequential prioritization of access number(s) by the InterActMe ~~Routing Manager (Figure 1 #10)~~ InterActMe Dynamic Router (Figure 1 #1) as detailed in the table shown as Figure 5. Exemplary database fields include: Current Access Mode In & Out, Current Access Number, Current Protocol, Current Dynamic Address, a series

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of Priority Numbers in sequential preference order with their respective Protocol, and e-mail Address all cross-referenced (e.g., index) by the InterActMe Access Number. The method may further include InterActMe Access Numbers with their respective protocols for a wide range of data content. Exemplary types of data content include fax, e-mail, voice-mail, cellular, dynamic or static Internet Protocol address with their respective protocols. The method may further include a wide range of personal, professional, and marketing information in an object oriented, relational, semantic, or flat-file database cross-referenced by InterActMe Access Number. Said Current Access Mode In & Out is the parameter to store the mode of operation for the InterActMe Device respectively for calls initiated by the device and calls terminated to the device. Said Current Access Number is the parameter that stores any call forwarding access numbers in the event that the InterActMe Access Number is not otherwise available. Said Current Protocol is the parameter to store the communication protocol utilized to establish a communication link at the aforementioned Current Access Number. Said Current Dynamic Address is the parameter to store the InterActMe assigned address currently being utilized in the communication link. The Current Dynamic Address includes the identification of InterActMe Local Channel Manager and InterActMe Remote Channel Manager in addition to the unique identifier of channel at the respective channel manager.

Please replace paragraph [0062] with the following amended paragraph:

[0062] InterActMe Local Channel Manager (Figure 4 #32) communicates with InterActMe Dynamic Router (Figure 4 #31) to Router (Figure 4 #1) to determine the communications link to the requested access number(s).

Please replace paragraph [0068] with the following amended paragraph:

[0068] InterActMe Local Channel Manager (Figure 3 #22) communicates with InterActMe Dynamic Router (Figure 3 #21) to Router (Figure 3 #1) to determine the communications link to the requested access number(s).

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Please replace paragraph [0071] with the following amended paragraph:

[0071] The InterActMe Local Channel Manager (Figure 3 #22) moves the access port seamlessly to the next InterActMe Local Channel Manager as determined by the InterActMe Dynamic Router (Figure 3 #21) in Router (Figure 3 #1) in a seamless manner.

Please replace paragraph [0082] with the following amended paragraph:

[0082] InterActMe Local / Remote ~~Device (Figure 2 #5)~~ registers Device (Figure 2 #6) registers with the Cellular Base Station (Figure 2 #4) its presence.

Please replace paragraph [0083] with the following amended paragraph:

[0083] InterActMe Local / Remote ~~Device (Figure 2 #5)~~ requests Device (Figure 2 #6) requests a phone call or walk-talkie communication with a specified access number(s) to the InterActMe Remote Channel Manager (Figure 2 #3). The specified access number(s) can be other InterActMe numbers or traditional telephone numbers (that include fax, pager, cellular, and plain old telephone system).

Please replace paragraph [0090] with the following amended paragraph:

[0090] The InterActMe Local / Remote ~~Device (Figure 2 #5)~~ can Device (Figure 2 #6) can also operate as a standard cellular phone. An exemplary operational procedure of the standard cellular phone is generally as follows:

Please replace paragraph [0091] with the following amended paragraph:

[0091] InterActMe Local / Remote ~~Device (Figure 2 #5)~~ can Device (Figure 2 #6) can also simply operate as a standard cellular phone and thus request a phone call with a specified access

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number, through the Cellular Base Station (Figure 2 #4), that is a traditional telephone number (that include fax, pager, cellular, and plain old telephone system) or Internet Protocol address.

Please replace paragraph [0101] with the following amended paragraph:

[0101] The most preferred embodiment of the invention is for all InterActMe Devices to operate in the Seamless Mode. The Seamless Mode enables dynamic and seamless switching between Cellular Base Station (Figure 2 #4) and InterActMe Local Channel Manager (Figure 2 #2), in the event that the existing short-range link falls below the local to remote switch threshold, hereinafter referred to as “seamless threshold” as depicted in Figure 11 (e.g., signal strength and bandwidth availability). A warning signal is generated on the InterActMe to indicate a switch to and from the remote and local channel manager. The warning signal can optionally be indicative of whether now in remote or local mode. The pitch of the warning signal can differentiate between the two modes. An additional audible signal can be generated periodically as a reminder of the actual operational mode of the Local Communication Management System (short-range or long-range). The short-range link remains the most preferred and thus the primary communications link until the seamless threshold is reached at which time the InterActMe (Figure 1 #5) End-user Communication Device (Figure 2 #6) a long-range wireless standby communications link through the InterActMe Remote Channel Manager (Figure 2 #3). Upon the successful establishment of the standby link between the new InterActMe Remote Channel Manager and the current InterActMe Local Channel Manager, in accordance to InterActMe Dynamic Router (Figure 2 #1) on behalf of the InterActMe (Figure 1 #5) End-user Communication Device (Figure 2 #6), the communications link is transferred from the current InterActMe Local Channel Manager to the InterActMe Remote Channel Manager. The reverse process occurs when the seamless threshold establishes a short-range standby communications link between the current InterActMe Remote Channel Manager and the new designated InterActMe Local Channel Manager.

registered thresholds of local threshold, remote threshold, and seamless threshold.

Please replace paragraph [0105] with the following amended paragraph:

[0105] The call terminator is a critical parameter, within the preferred embodiment of the InterActMe System, in the determination of handling procedure to establish communication link as depicted in Figure 9. Exemplary of this importance is a business communications link being routed to voice mail as depicted in Figure 13 directly in accordance to a time of day and calendar schedule as depicted in Figure 10. Therefore the unified communications system avoids undesirable interruptions. Further process handling can be easily achieved such as screening-in or screening-out filters. The method may further include a distinct ring as depicted in Figure 13 to distinguish between a certain call terminator and others. A further exemplary is a children's communication link being routed to voice mail directly in accordance to a time of day and calendar schedule along with screen-in and / or screen-out filters. The freedom and flexibility of every employee, family member, etc. having their own InterActMe device introduces significant management demands to effectively disable certain communications links at specified times.

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Please replace paragraph [0102] with the following amended paragraph:

[0102] The preferred embodiment utilizes an InterActMe Dynamic Router that selects the optimal communications link utilizing an algorithm as depicted in Figure 1 #15 to minimize customer cost (e.g., preference of local channel manager over remote channel manager), to minimize frequency of switching between local channel managers (e.g., preference of access port with increase signal strength, increased operational range, and consistent with direction of travel), to maximize communications link quality, and to ensure routing capacity availability. Numerous algorithms can be used to determine optimal routing with exemplary factors such as historical performance, membership privileges as depicted in Figure 12, and features provided by one local channel manager versus other accessible local channel managers (e.g., security encryption, "home" access port, exclusion list of local channel managers, etc.). Additional algorithms are included in the more preferred embodiment to determine optimal switching time with exemplary factors such as rate of signal strength deterioration or increase, overlap bands in registered thresholds of local threshold, remote threshold, and seamless threshold.

Please replace paragraph [0105] with the following amended paragraph:

[0105] The call terminator is a critical parameter, within the preferred embodiment of the InterActMe System, in the determination of handling procedure to establish communication link as depicted in Figure 9. Exemplary of this importance is a business communications link being routed to voice mail as depicted in Figure 13 directly in accordance to a time of day and calendar schedule as depicted in Figure 10. Therefore the unified communications system avoids undesirable interruptions. Further process handling can be easily achieved such as screening-in or screening-out filters. The method may further include a distinct ring as depicted in Figure 13 to distinguish between a certain call terminator and others. A further exemplary is a children's communication link being routed to voice mail directly in accordance to a time of day and calendar schedule along with screen-in and / or screen-out filters. The freedom and flexibility of every employee, family member, etc. having their own InterActMe device introduces significant management demands to effectively disable certain communications links at specified times.

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Please replace paragraph [0106] with the following amended paragraph:

[0106] Each InterActMe Figure 8 #26 in the preferred embodiment is further capable, within the full functionality of the InterActMe system, to make known its geographic location through the known location of each active ~~InterActMe Local Channel Manager~~ Short Range Access Point as depicted in Figure 8, with further geographic location determination by triangulation of signal strengths of multiple InterActMe Local Channel Managers. An InterActMe can be further configured with a global positioning system as depicted in Figure 8 (GPS), said GPS establishes precise location through triangulation with multiple satellite systems Figure 8 #81, to establish precise geographic location. An InterActMe can be further configured with a local positioning system (LPS), said LPS establishes precise location through triangulation with multiple local transmitting systems Figure 8 #80, to establish precise geographic location. When such precise geographic location is known, the InterActMe system is further capable of proactively utilizing this location for displaying graphically the location to the specified parties authorized to know such information, for conveying geographic specific messages such as the issuance of a welcome message. The welcome message can take the form of a walkie-talkie voice message, a phone call voice message, an e-mail message, issuance of coupons, or simply an acknowledgement of registration. Other purposes of geographic location include safety, marketing, optimal routing, addressing, and communications link, audit trail for payroll, audit trail for security, to individual profiling.

Please replace paragraph [0109] with the following amended paragraph:

[0109] In yet another alternative embodiment, the InterActMe in the preferred embodiment is further capable, within the full functionality of the InterActMe system, of utilizing an integrated data scanner as depicted in Figure 2 #9 (e.g., read system such as radio frequency identification tags, optical readers, infrared transceiver, bar code etc.) to trigger specific messages between InterActMe and InterActMe Local Channel Manager (or alternatively to the InterActMe Remote Channel Manager). Utilization of scanned information initiates the conveying of a wide variety

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of context sensitive information. Included in this context sensitive scheme, though not limited, are the following: a) registration of an individual InterActMe into a specific channel manager, b) inquiry of product pricing information and / or generation of manufacturer's coupon, c) broadcast of known geographic location to InterActMe system, d) broadcast of user's identification to a specific registered device, and e) authorization to initiate the sending of encrypted transactional information.